



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Worthington Armstrong Venture (WAVE)
101 Lindenwood Drive Suite 350
Malvern, PA 19355

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: EIFS & STUCCO Ceiling System – N.I.

APPROVAL DOCUMENT: Drawing No. WAV0001, titled "EIFS & STUCCO Ceiling System", sheets 1 through 6 of 6, dated 06/18/2004 and 06/25/2004, with last revision H dated 01/19/2015, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each metal grid piece shall bear a permanent label marked at not more than 4' o.c. with Aberdeen, MD and following statement: "Miami-Dade County Product Control Approved" and per FBC 1715.9.3. Also each unit (container, roll or board) needs to be labeled.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA # 12-0314.05 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
04/07/2015

NOA No. 15-0127.04
Expiration Date: March 17, 2020
Approval Date: April 16, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **WAV0001**, titled "EIFS & STUCCO Ceiling System", sheets 1 through 6 of 6, dated 06/18/2004 and 06/25/2004, with last revision H dated 01/19/2015, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS "*Submitted under NOA # 04-0716.03*"

1. Test report on Cyclic Load Pressure Test per FBC, TAS 203-94 and test report on Uniform Static Load Test per FBC, TAS 202-94 of EIFS Ceiling System, prepared by Architectural Testing Report No. **01-46423.01**, dated 03/08/2004, signed and sealed by J. A. Reed, P.E.
2. Test report on Cyclic Load Pressure Test per FBC TAS 203-94 and test report on Uniform Static Load Test per FBC, TAS 202-94 of Stucco Ceiling System, prepared by Architectural Testing Report No. **01-46412.02**, dated 03/08/2004, signed and sealed by J. A. Reed, P.E.

C. CALCULATIONS "*Submitted under NOA # 07-0119.02*"

1. Anchor Calculations, prepared by PTC, LLC, Report No. **131-B**, dated 11/30/2006, pages 1 through 6 and Report No. **131-C**, dated 01/24/2007, pages 1 through 6, signed and sealed by Eric S. Nielsen, P.E.

D. QUALITY ASSURANCE


1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

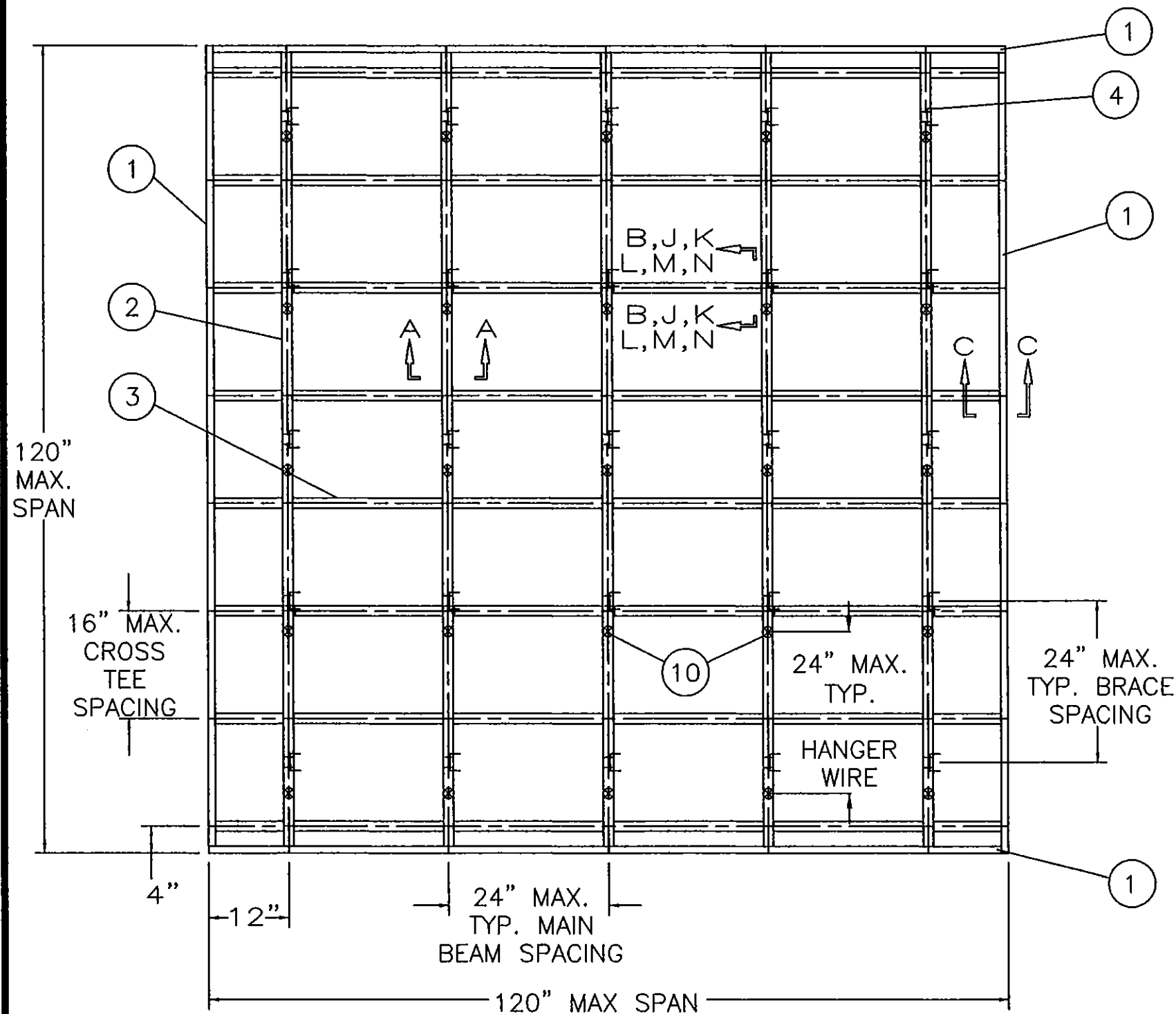
1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest, issued by PTC Product Design Group, LLC, dated 01/19/2015, signed and sealed by Robert J. Amoruso, P.E.


04/07/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 15-0127.04
Expiration Date: March 17, 2020
Approval Date: April 16, 2015

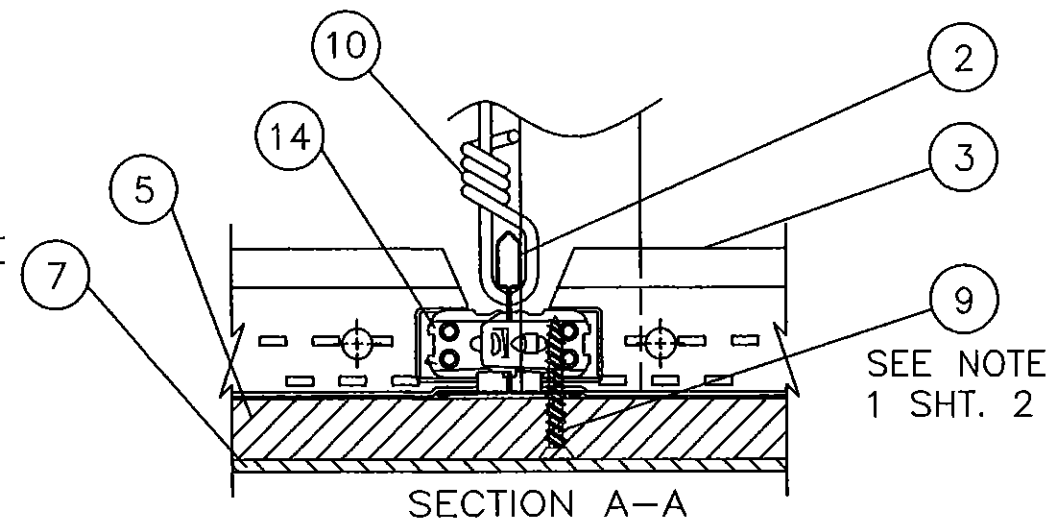


EIFS LAYOUT

NOT IMPACT RESISTANT

DESIGN PRESSURE CAPACITY
+75.0/-75.0 PSF MAXIMUM

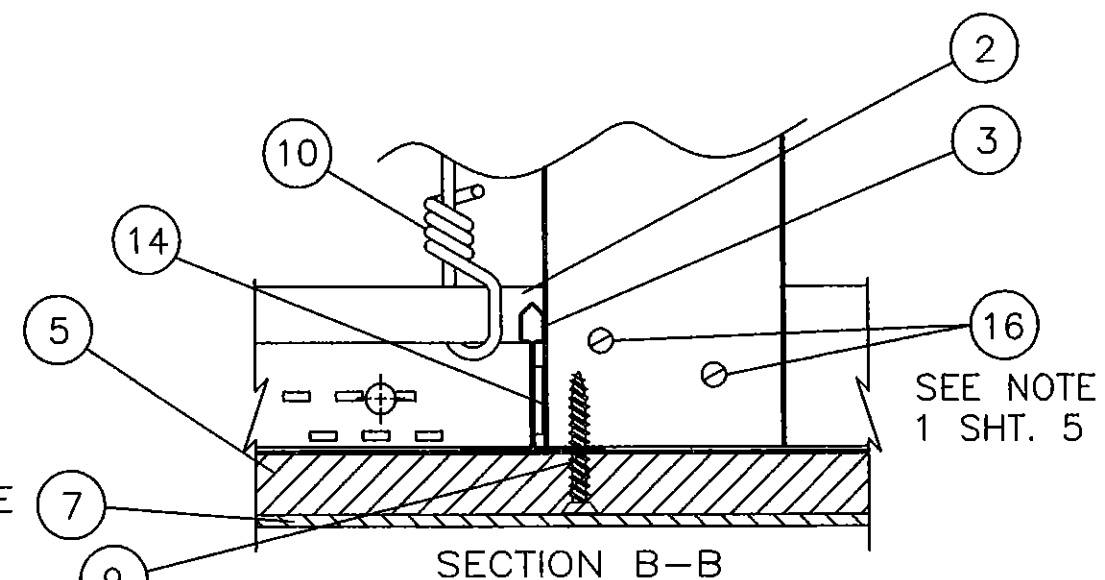
SEE NOTE
1 SHT. 6



SECTION A-A

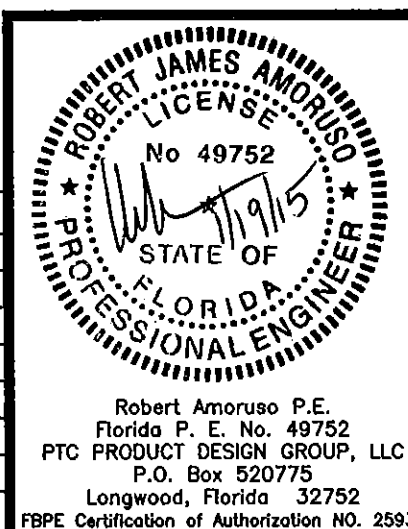
SEE NOTE
1 SHT. 6

SEE NOTE
1 SHT. 2



SECTION B-B

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-9127-04
Expiration Date 03/17/2020
By *[Signature]*
Miami/Dade Product Control



Robert Amoruso P.E.
Florida P. E. No. 49752
PTC PRODUCT DESIGN GROUP, LLC
P.O. Box 520775
Longwood, Florida 32752
FBPE Certification of Authorization NO. 25935

SYM	REVISION	DATE	BY
H	Updated to 5TH EDITION FBC (2014)	1/19/15	RJA
G	Updated to 2010 FBC	03/01/12	JSH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchor Additions	01/24/07	HFN
D	Revision per Alternate Anchor Additions	11/22/06	HFN
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revision per Dade letter dated Oct. 25, 2004	11/16/04	BB
A	Revised per Dade letter dated September 15, 2004 Revised border	09/24/04	DRL

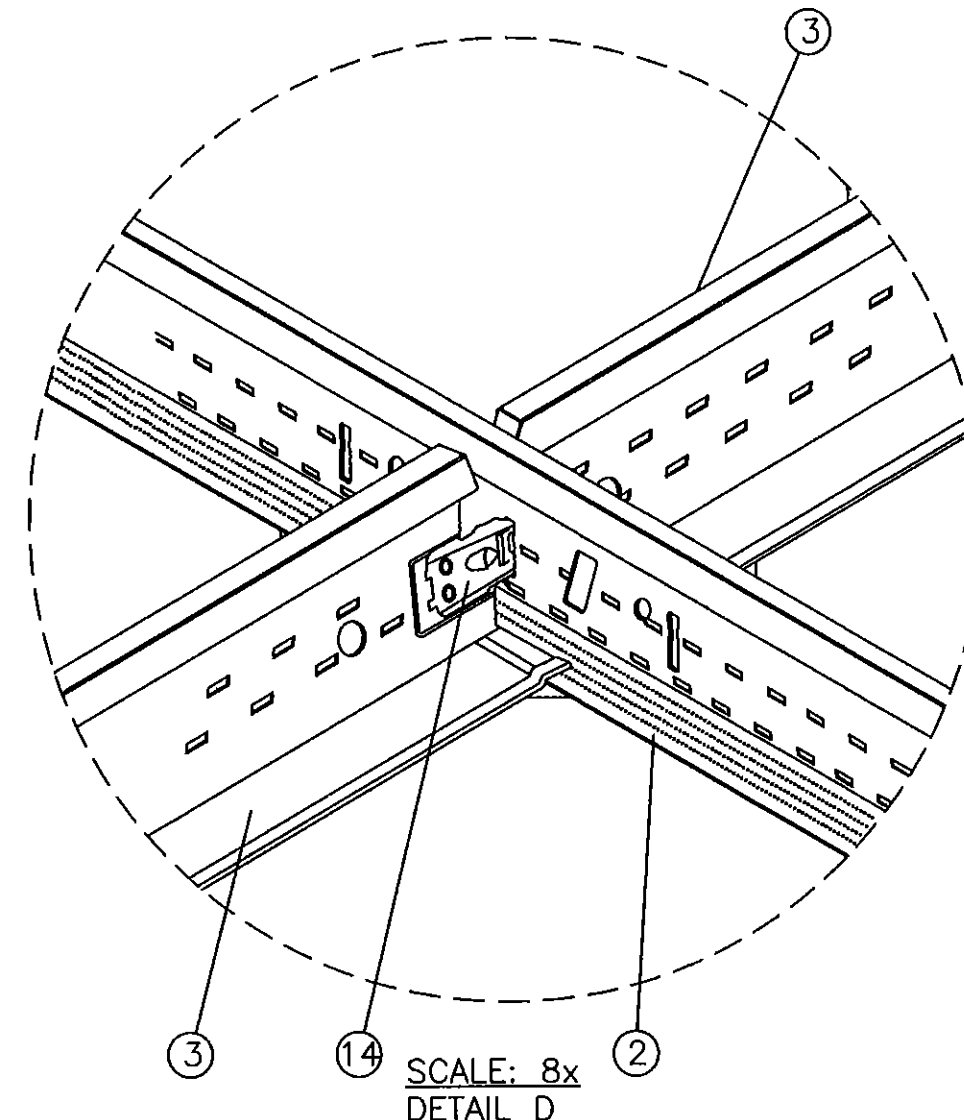
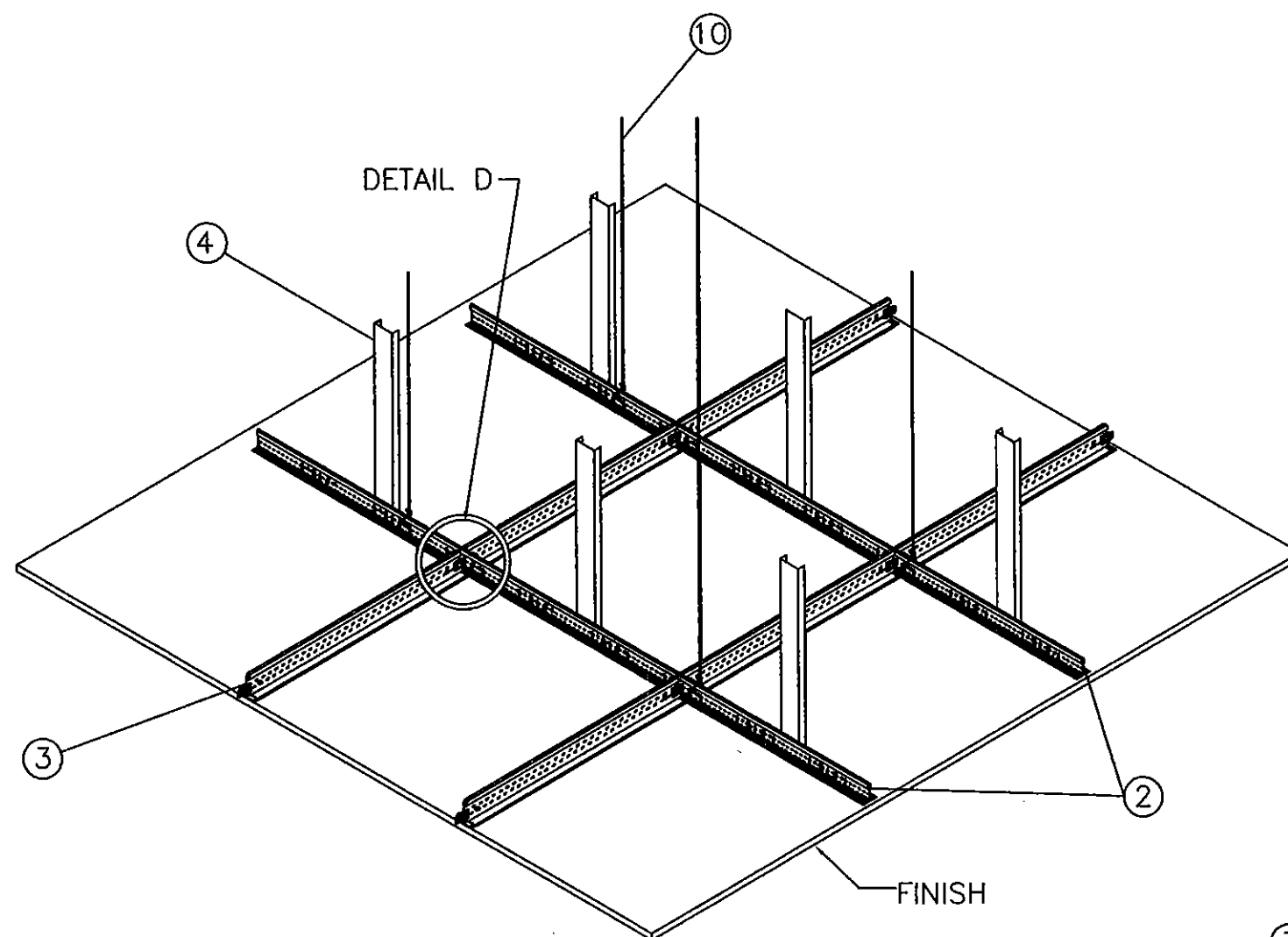
WAVE

101 LINDENWOOD DR MALVERN, PA 19355

TITLE: ELEVATION & CROSS SECTIONS
120" X 120" EIFS CEILING SYSTEM

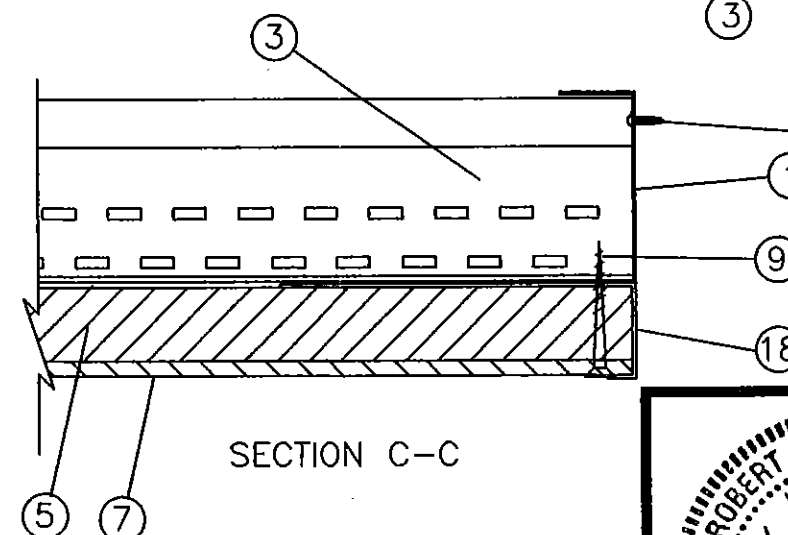
PREPARED BY:	ORIN:	DATE:
PTC	BB	06/18/04
SCALE:	NTS	DWG. NO:
REV:	H	WAV0001
		SHEET: 1 OF 6

Phone 321.690.1788 Fax 321.690.1789



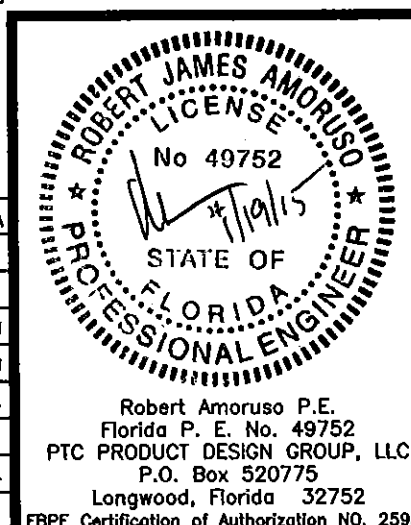
NOTES:

- 1) ITEM #9 THE 1 1/4" DRYWALL SCREW IS SPACED 8" ON CENTER MAX. THROUGH THE DENSGLASS AND INTO THE MAIN RUNNERS, CROSS TEES & PERIMETER CHANNEL.
- 2) HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN. OF (3) TURNS IN 3" PER ASTM C636.
- 3) HANGER WIRE TO BE SPACED A MAXIMUM OF 24" O.C.
- 4) VERTICAL BRACING TO BE INSTALLED ON MAIN BEAMS AT A MAXIMUM OF 24" O.C.
- 5) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN.



SECURED 12" O.C. W/ (17) WOOD
TO MAIN STRUCTURE (20) STEEL
(21) CONCRETE

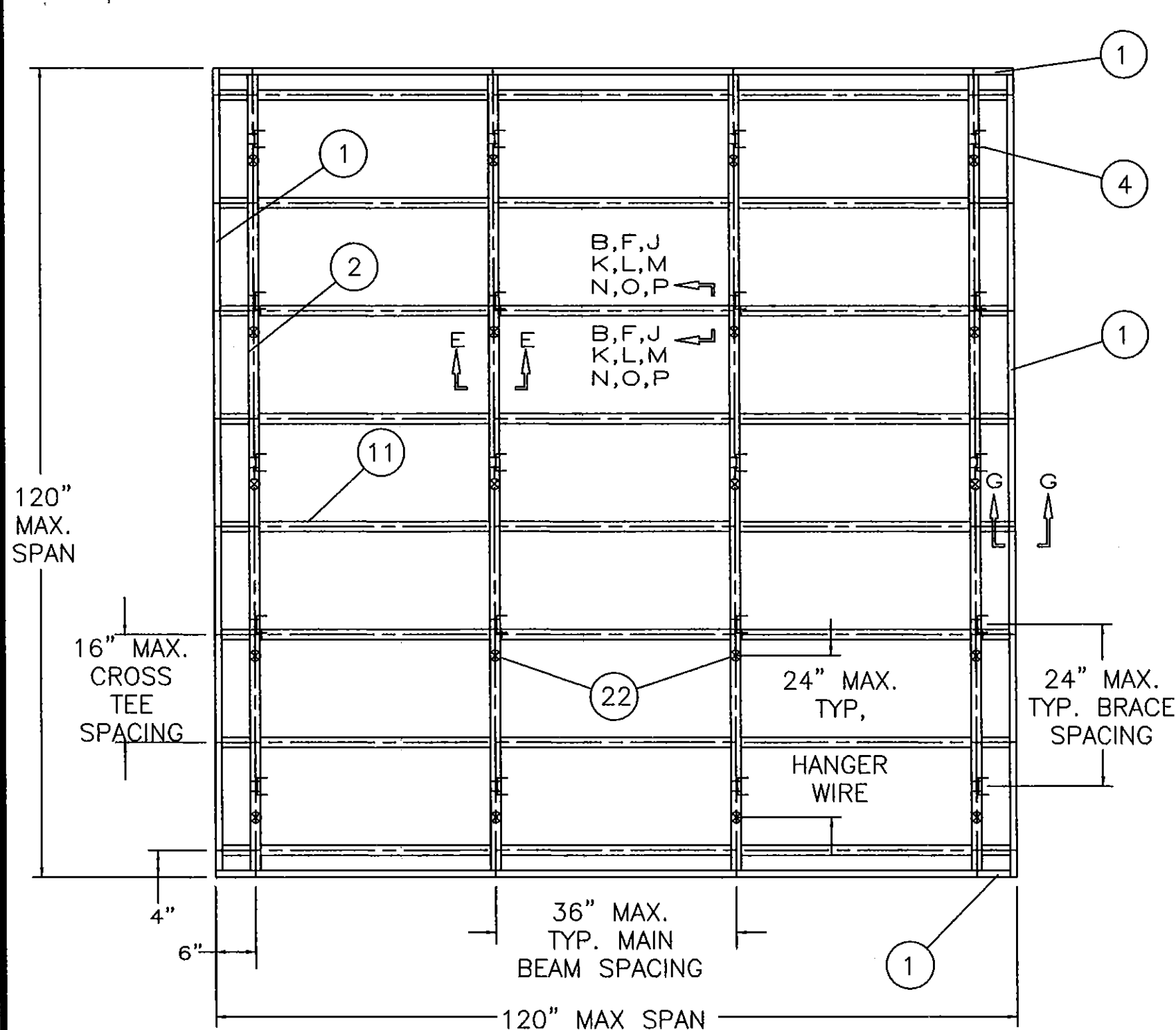
H	Updated to 5TH EDITION FBC (2014)	1/10/15	RJA
G	Updated to 2010 FBC	03/01/12	JBH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchor Additions	01/24/07	HFN
D	Revision per Alternate Anchor Additions	11/22/06	HFN
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revised per Dade letter dated 10/25/04	11/16/04	BB
A	Revised per Dade letter dated September 15, 2004	09/24/04	DRL
SYM	REVISION	DATE	BY



Robert Amoroso P.E.
Florida P. E. No. 49752
PTC PRODUCT DESIGN GROUP, LLC
P.O. Box 520775
Longwood, Florida 32752
FBPE Certification of Authorization NO. 25935

WAVE			
101 LINDENWOOD DR MALVERN, PA 19355			
TITLE: EIFS SYSTEM DETAILS			
PREPARED BY:	ORN:	DATE:	
PTC	BB	06/25/04	
SCALE:	NTS	OWG. NO:	WAV0001
REV:	H	SHEET:	2 OF 6
Phone 321.890.1788		Fax 321.890.1789	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-9127-04
Expiration Date 03/17/2020
By *[Signature]*
Miami-Dade Product Control



STUCCO LAYOUT

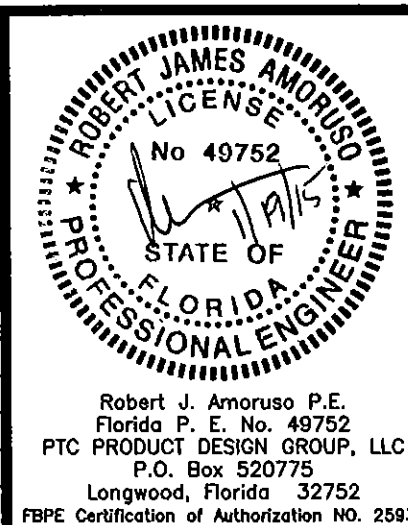
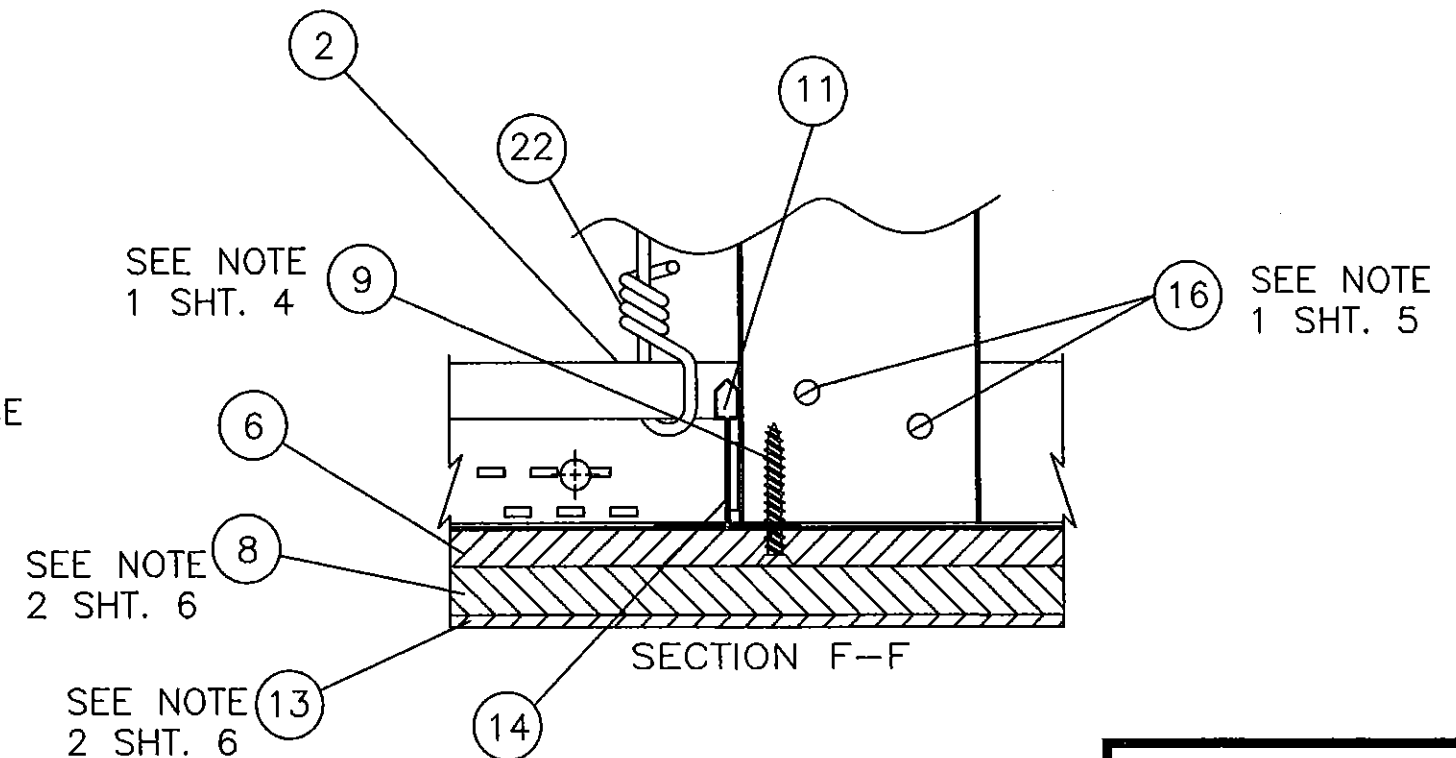
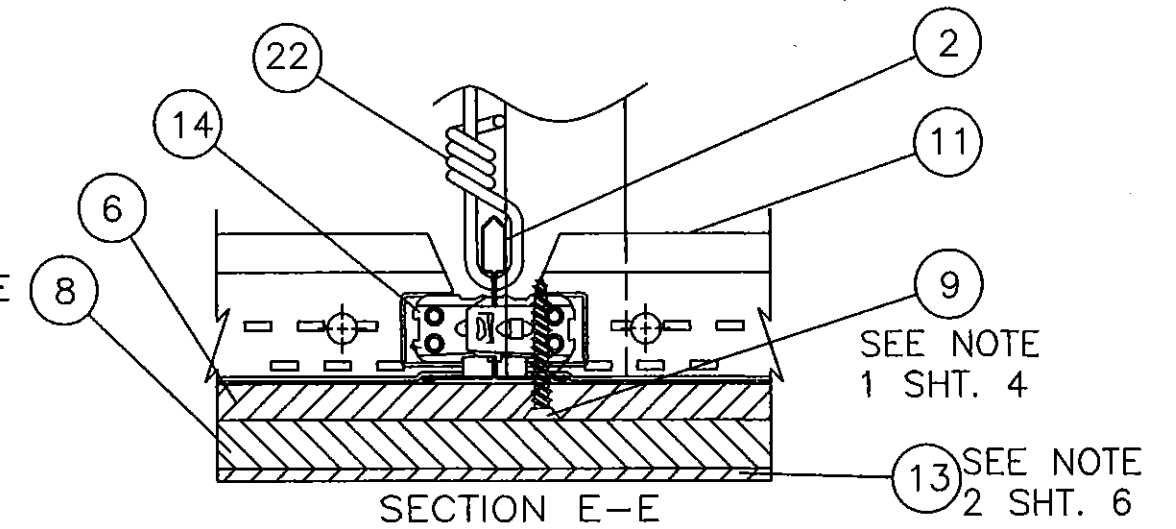
NOT IMPACT RESISTANT
DESIGN PRESSURE CAPACITY
+75.0/-75.0 PSF MAXIMUM

SEE NOTE
2 SHT. 6

SEE NOTE
1 SHT. 4

SEE NOTE
2 SHT. 6

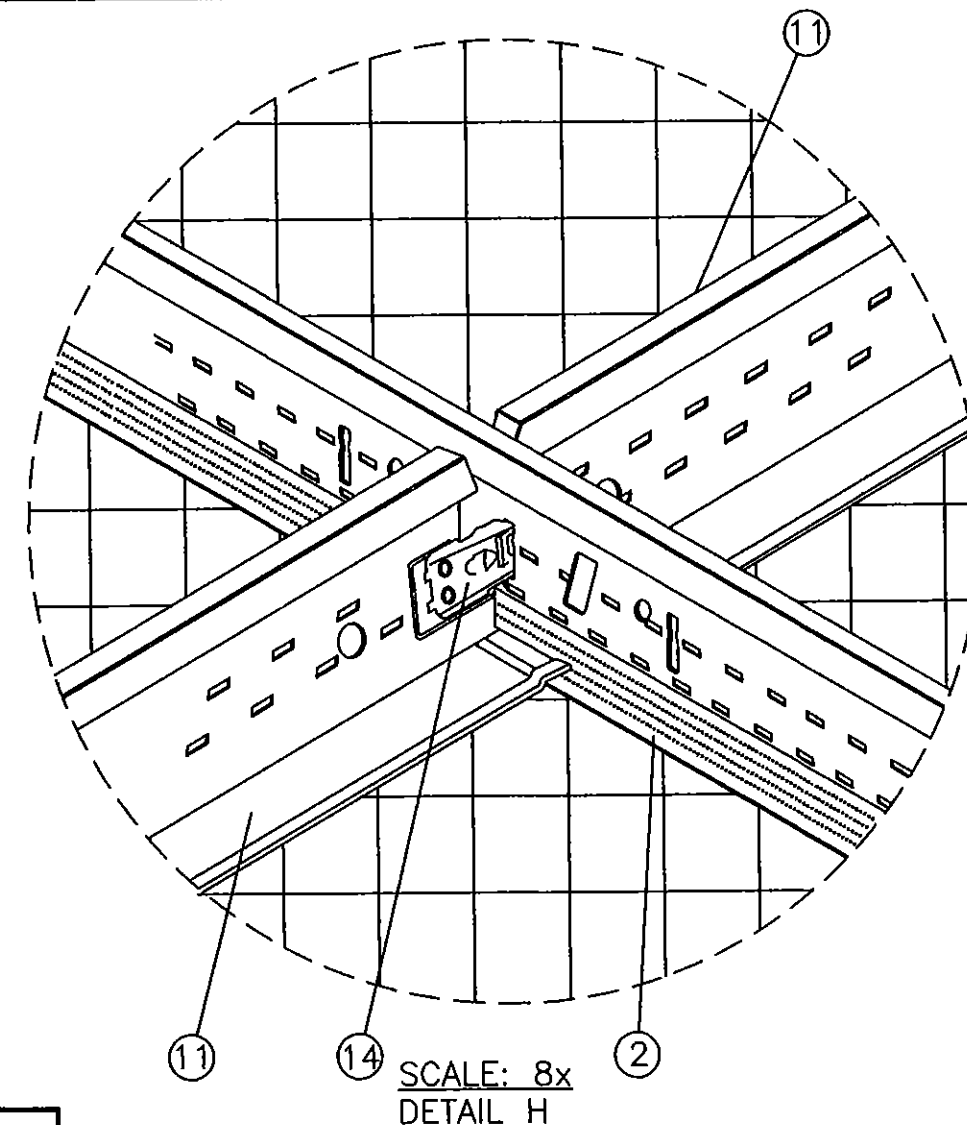
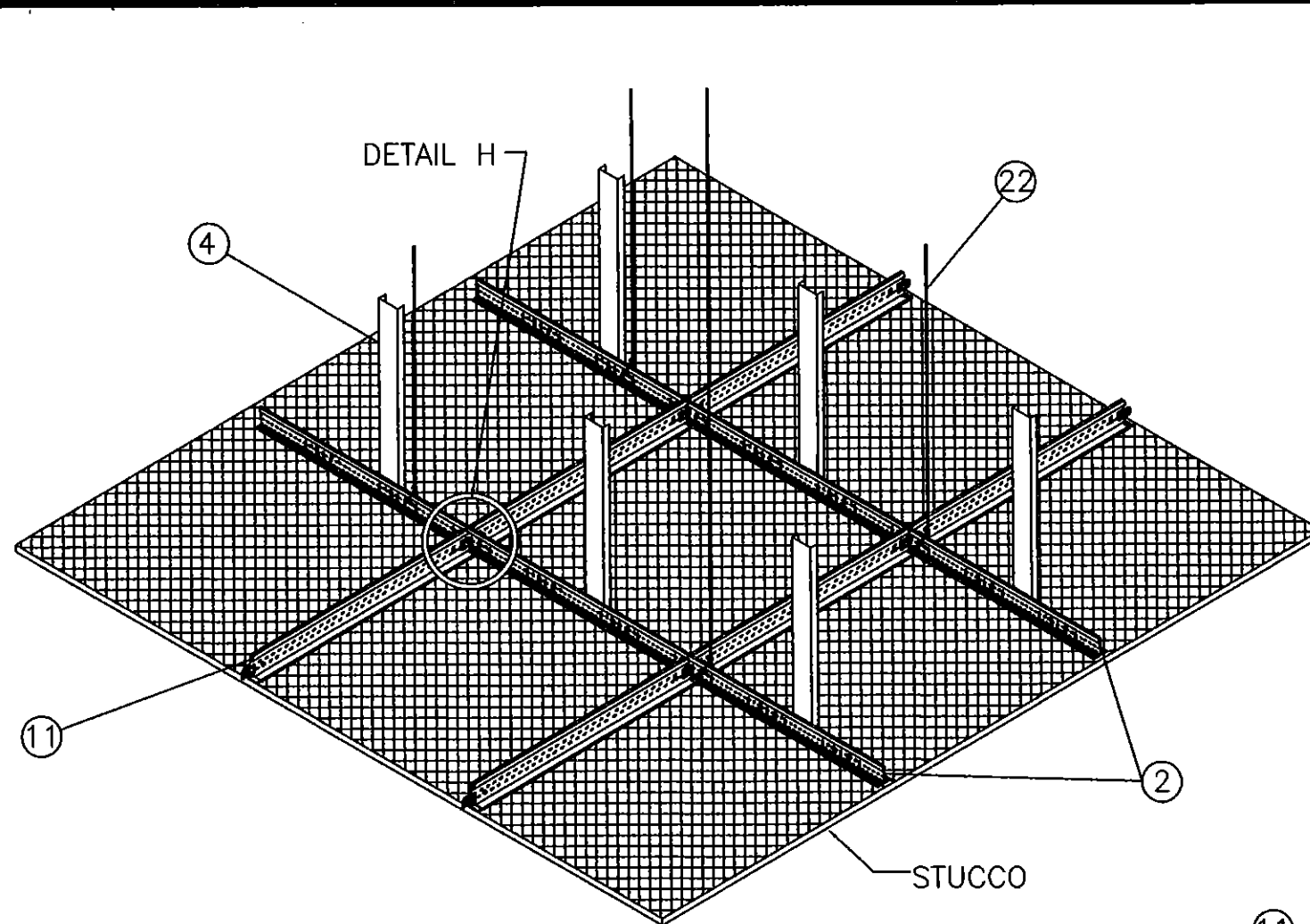
SEE NOTE
2 SHT. 6



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0127.04
Expiration Date 03/17/2020
By *[Signature]*
Miami Dade Product Control

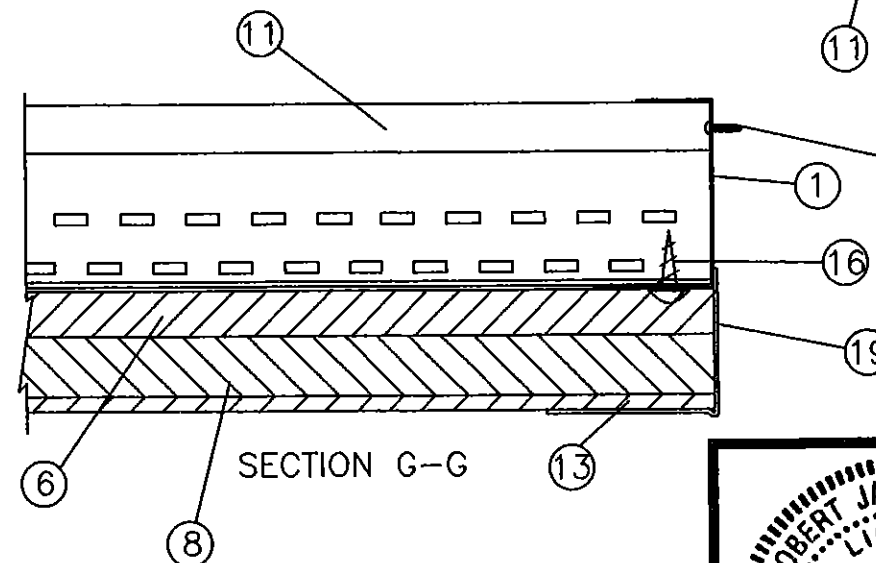
H	Updated to 5TH EDITION FBC (2014)	1/19/15	RJA
G	Updated to 2010 FBC	03/01/12	JBH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchor Additions	01/24/07	HFN
D	Revision per Alternate Anchor Additions	11/22/06	HFN
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revised per Dade letter dated 10/25/04	11/16/04	BB
A	Revised per Dade letter dated September 15, 2004 Revised border	09/24/04	DRL
SYM	REVISION	DATE	BY

WAVE			
101 LINDENWOOD DR MALVERN, PA 19355			
TITLE: ELEVATION & CROSS SECTIONS 120" X 120" STUCCO CEILING SYSTEM			
PREPARED BY:	DRN:	DATE:	
PTC	BB	06/18/04	
SCALE:	NTS	DWG. NO:	WAV0001
REV:	H	SHEET:	3 OF 6
Phone 321.890.1788		Fax 321.890.1789	



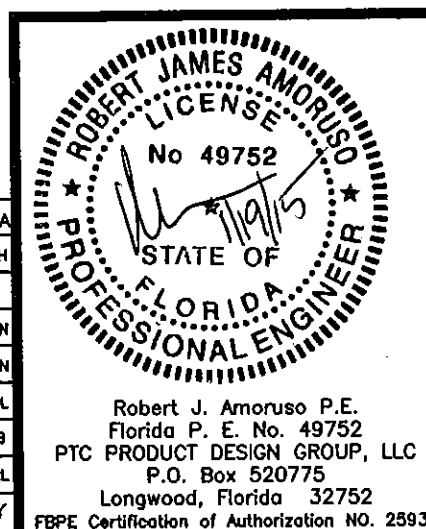
NOTES:

- 1) ITEM #9 THE 1 1/4" DRYWALL SCREW IS SPACED 8" ON CENTER MAX. THROUGH THE RIBBED SHEET LATH AND INTO THE MAIN RUNNERS, CROSS TEES & PERIMETER CHANNEL.
- 2) HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN. OF (3) TURNS IN 3" PER ASTM C636.
- 3) HANGER WIRE TO BE SPACED A MAXIMUM OF 24" O.C.
- 4) VERTICAL BRACING TO BE INSTALLED ON MAIN BEAMS AT A MAXIMUM OF 24" O.C.
- 5) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN.



SECURED 12" O.C. W/ 17 WOOD
TO MAIN STRUCTURE 20 STEEL
21 CONCRETE

H	Updated to 5TH EDITION FBC (2014)	1/19/15	RJA
G	Updated to 2010 FBC	03/01/12	JBH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchor Addition	01/24/07	HFN
D	Revision per Alternate Anchor Addition	11/22/06	HFN
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revised per Dade letter 10/25/04	11/16/04	BB
A	Revised per Dade letter dated September 16, 2004	09/24/04	DRL
SYM	REVISION	DATE	BY



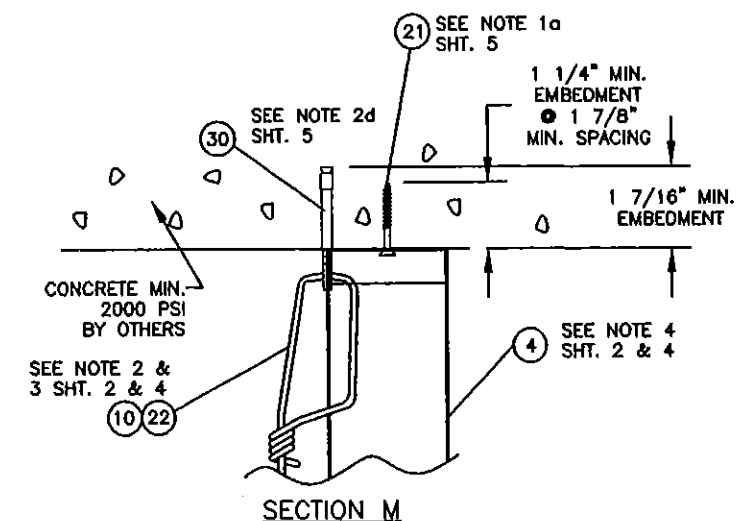
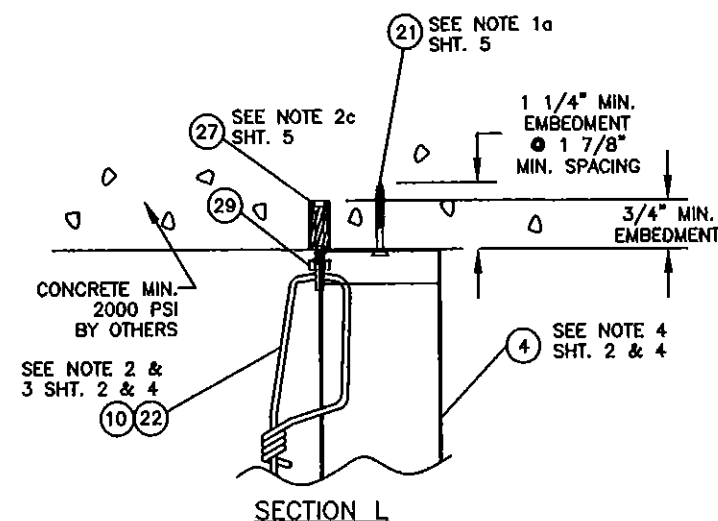
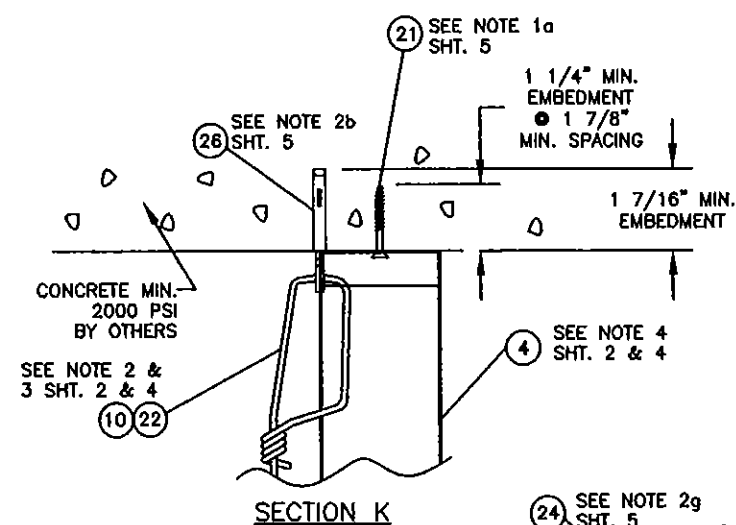
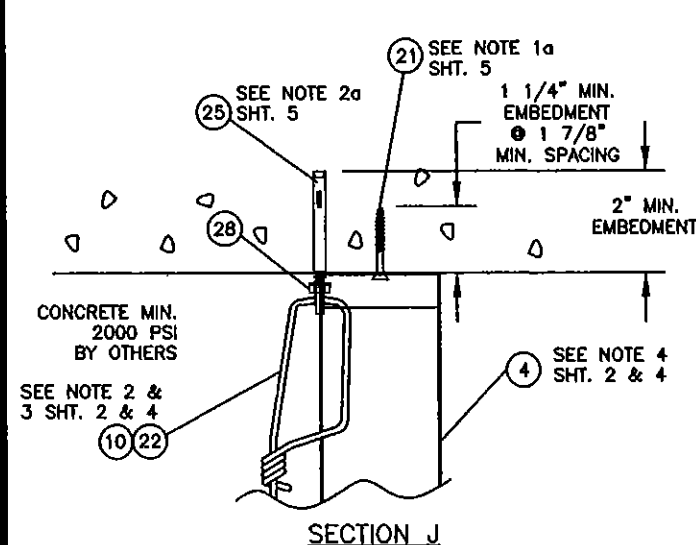
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0127-04
Expiration Date 03/17/2020
By *[Signature]*
Miami-Dade Product Control

WAVE
101 LINDENWOOD DR MALVERN, PA 19355

TITLE: STUCCO SYSTEM DETAILS

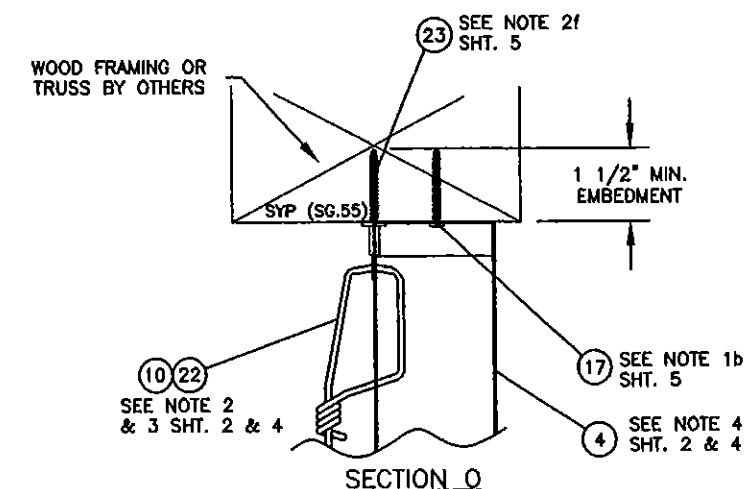
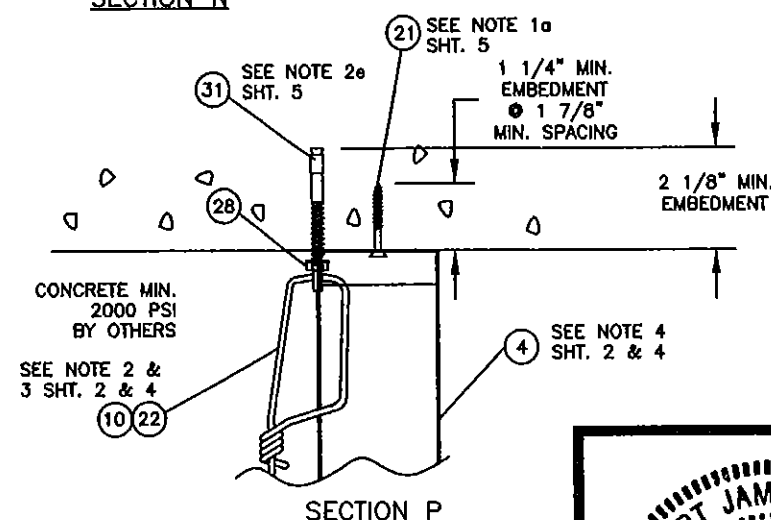
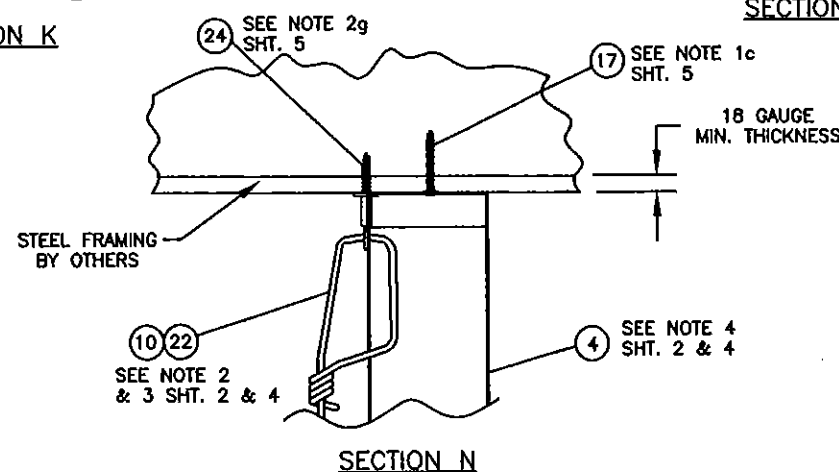
PREPARED BY: **PTC** DRN: BB DATE: 06/25/04
SCALE: NTS DWG. NO: WAV0001
REV: H SHEET: 4 OF 6

Phone 321.690.1788 Fax 321.690.1789

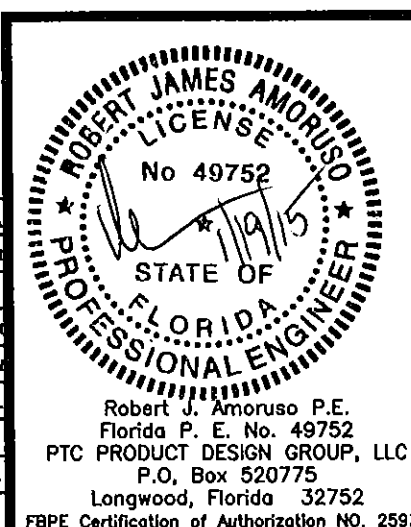


ANCHOR NOTES:

- 1) THE VERTICAL BRACE IS SECURED TO THE MAIN BEAM AT THE BOTTOM WITH (2) ITEM #16 & TO THE STRUCTURE AT THE TOP AS FOLLOWS:
 - a.) CONCRETE SUBSTRATE WITH (3) ITEM #21, 3/16" DIA. RAWL TAPPER, W/1 1/4" MINIMUM EMBEDMENT. ITEM #17.
 - b.) WOOD FRAMING SUBSTRATE WITH (3) ITEM #17, #8 WOOD SCREW, W/1 1/2" MINIMUM EMBEDMENT.
 - c.) STEEL FRAMING SUBSTRATE WITH (3) ITEM #17, #8 SHEET METAL SCREW, W/MINIMUM 3 PITCHES OF THREAD BEYOND STEEL FRAMING.
- 2) THE HANGER WIRE IS SECURED TO THE MAIN BEAM AT THE BOTTOM WITH (1) ITEM #2 & TO THE STRUCTURE AT THE TOP AS FOLLOWS:
 - a.) CONCRETE SUBSTRATE WITH (1) ITEM #25, 1/4" DIA. HILTI KWIKBOLT III, W/2" MINIMUM EMBEDMENT.
 - b.) CONCRETE SUBSTRATE WITH (1) ITEM #26, 1/4" DIA. HILTI HCKB EYEBOLT, W/1 7/16" MINIMUM EMBEDMENT.
 - c.) CONCRETE SUBSTRATE WITH (1) ITEM #27, 3/8" DIA. HILTI HDI-P DROP-IN, W/ 3/4" MINIMUM EMBEDMENT.
 - d.) CONCRETE SUBSTRATE WITH (1) ITEM #30, 1/4" DIA. HILTI HHDCA EYEBOLT, W/1 7/16" MINIMUM EMBEDMENT.
 - e.) CONCRETE SUBSTRATE WITH (1) ITEM #31, 1/4" DIA. ITW/RED HEAD TRUBOLT, W/2 1/8" MINIMUM EMBEDMENT.
 - f.) WOOD FRAMING SUBSTRATE WITH (1) ITEM #23, #10 WOOD EYEBOLT, W/1 1/2" MINIMUM EMBEDMENT.
 - g.) STEEL FRAMING SUBSTRATE WITH (1) ITEM #24, #10 SHEET METAL EYEBOLT, W/MINIMUM 3 PITCHES OF THREAD BEYOND STEEL FRAMING.



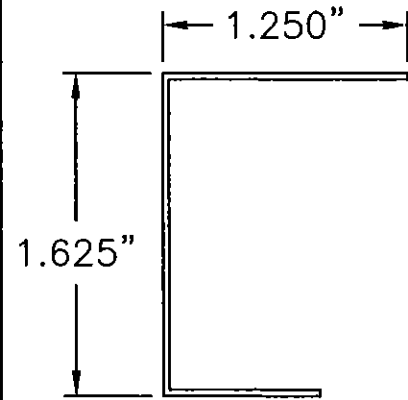
H	Updated to 5TH EDITION FBC (2014)	1/19/15	RJA
G	Updated to 2010 FBC	03/01/12	JBH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchor Addition	1/24/07	HFM
D	Revision per Alternate Anchor Addition	11/22/06	HFM
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revised per Dade letter dated 10/25/04	11/16/04	BB
A	Revised per Dade letter dated September 15, 2004	09/24/04	DRL
SYM	REVISION	DATE	BY



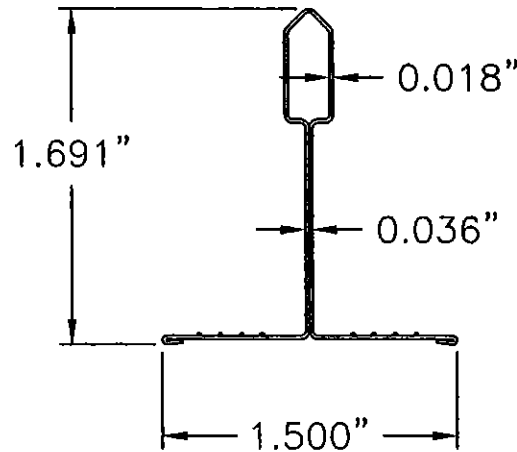
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0127.04
Expiration Date 03/17/2020
By *[Signature]*
Miami Trade Product Control

WAVE			
101 LINDENWOOD DR MALVERN, PA 19355			
TITLE: ELEVATION & CROSS SECTIONS STUCCO CEILING SYSTEM INSTALLATION DETAILS			
PREPARED BY:	ORIGIN:	DATE:	
PTC	BB	06/18/04	
SCALE:	NTS	DWG. NO:	WAV0001
REV:	H	SHEET:	5 OF 6
Phone 321.690.1788		Fax 321.690.1789	

1 DRYWALL TRACK/
PERIMETER CHANNEL
TRHA 21 GAUGE

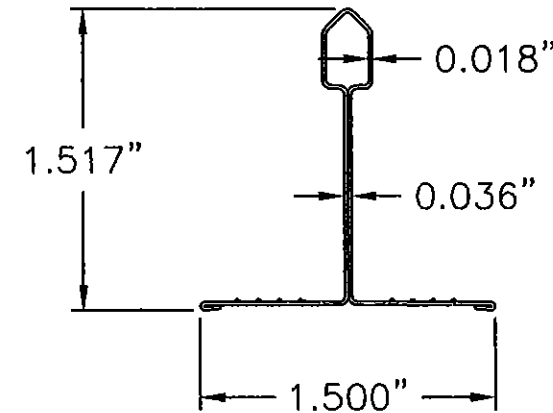


2 MAIN BEAM
TYP. WALL THK, .018

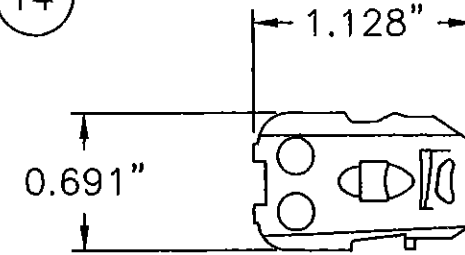


3 CROSS TEE BEAM
TYP. WALL THK, .018
EIFS

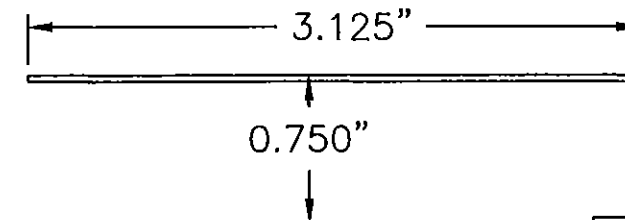
11 CROSS TEE BEAM
TYP. WALL THK, .018
STUCCO



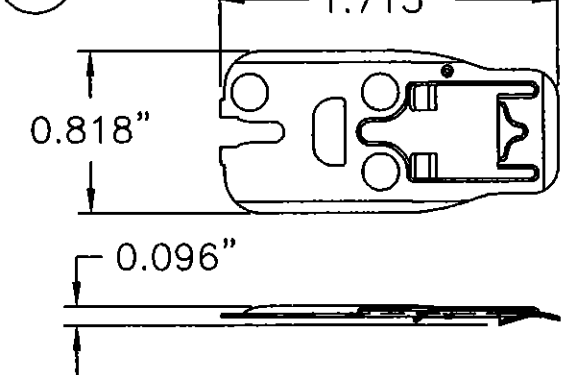
14 CROSS TEE BEAM CLIP



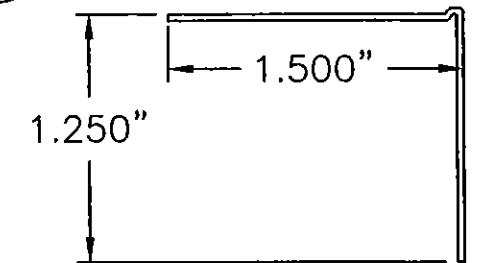
18 #66 3/4\"/>



15 MAIN BEAM CLIP



19 #701 BEAD L TRIM
TYP WALL THK. 21 GAUGE



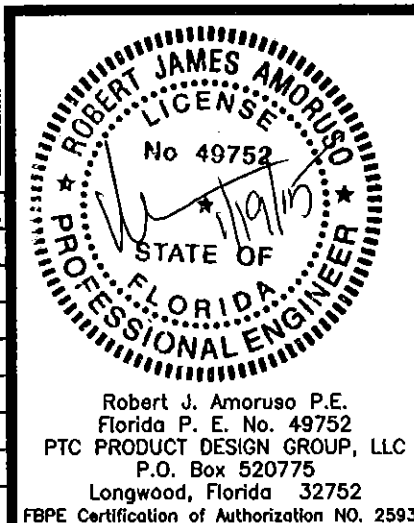
ITEM	QTY	DESCRIPTION
1	A/R	CHANNEL, 33 KSI BY WAVE
2	A/R	TRHA 21 GA, 1-5/8"x1-1/4" DRYWALL TRACK/PRIMER
3	A/R	HD8906 G-90 MAIN BEAM BY WAVE
4	A/R	XL8926 G-90 CROSS TEE BY WAVE (EIFS)
5	A/R	STUD 2-1/2" X 1 1/4" STH-22 Ga., 33 KSI VERTICAL BRACE
6	A/R	1/2" DRYWALL SHEET DENSGLASS GOLD, GEORGIA PACIFIC
7	A/R	3/8" RIBBED SHEET LATH, 3.4 LBS/SQ.YD., AS PER ASTM C-847
8	A/R	EFIS FINISHED COAT (SEE NOTE 1, SHEET 6)
9	A/R	STUCCO BASED COAT (SEE NOTE 2, SHEET 6)
10	A/R	#8 x 1-1/4" LG. MODIFIED TRUSS HEAD K LATH DRYWALL SCREW
11	A/R	#12 Ga. H.D.G. HANGER WIRE (EIFS)
12	A/R	G-90 XL7936 CROSS TEE BY WAVE (STUCCO)
13	A/R	BUILDING STRUCTURE OR 2 BY WOOD BUCK BY OTHERS
14	A/R	STUCCO FINISHED COAT (SEE NOTE 2 SHEET 5)
15	A/R	CROSS TEE CLIP BY WAVE
16	A/R	MAIN BEAM CLIP BY WAVE
17	A/R	#6 X 9/16" TRUSS HD SELF DRILLING SCREW
18	A/R	#8 SHEET METAL SCREW TEK ITW BUILDEX
19	A/R	#66 3/4" CASE BEAD BY UNIMAST 3/4" x 3 1/8" x 21 GA.
20	A/R	#701 BEAD L TRIM ZINC BY UNIMAST 1 1/4" x 1 1/2" x 21 GA.
21	A/R	#12 SELF DRILLING & TAPPING BLAZER PANCAKE HEAD SCREW
22	A/R	3/16" DIAMETER RAWL TAPPER W/1 1/4" MIN. EMBEDMENT
23	A/R	#9 GA. H.D.G. HANGER WIRE (STUCCO)
24	A/R	#10 I-LAG 150WS WOOD SCREW W/EYELET
25	A/R	#10 I-LAG 750SD SELF DRILLING & TAPPING SCREW W/EYELET
26	A/R	1/4" DIA. HILTI KWIK BOLT III ANCHOR

NOTES:

- EIFS COMPOSITION: DRYVIT GENESIS BASE COAT MIXED WITH CEMENT 1/8" THICK BY 9" WIDE PER MANUFACTURER SPECIFICATIONS IS APPLIED TO THE DENSGLASS GOLD JOINTS ONLY, FOLLOWED BY DRYVIT BRAND #20 FIBERGLASS MESH WHICH IS WORKED INTO THE BASE MIX. ANOTHER 3/16" THICK COAT OF MIX IS TROWELED OVER THE ENTIRE SURFACE. A CONTINUOUS LAYER OF MESH IS THEN WORKED INTO THE WET BASE MIX WITH A SECOND LAYER OF BASE MIX COVERING THE MESH. THE BASE MIX IS ALLOWED TO DRY OVERNIGHT AND PRIOR TO A FINISH COAT OF DRYVIT BRAND MIX QUARTZPUTZ DPR BEING APPLIED AND TROWELED TO PRODUCE A 1/8" TO 3/16" FINISH COAT.
- A STUCCO MIX WITH A FINISH THICKNESS OF 3/4" IS TROWELED INTO THE RIBBED LATH IN THREE COATS. THE FIRST COAT IS ALLOWED TO SET, THEN A SECOND LAYER OF MIX IS TROWELED ON SIDE TO SIDE TO THE STOPS ON ALL SIDES. THE FINISH COAT MIX OF IVORY FINISH LIME, WHITE CEMENT AND WHITE SILICA SAND IS WORKED INTO THE STUCCO MIX AND TROWELED ON IN AN 1/8" TO 3/16" THICK FINISH COAT.
- STUCCO MIX CONSISTS OF: 22 SHOVELS OF C-144 SAND, 2 1/2 GALLONS "THORO" BRAND ACRYL 60 ACRYLIC ADDITIVE, 1 PACK CONTROL "X" CHOPPED FIBERS, 1 BAG (50 LBS.) TYPE "S" LIME, 1 BAG (94 LBS.) TYPE "1" PORTLAND CEMENT.

ITEM	QTY	DESCRIPTION
26	A/R	1/4" DIA. HILTI HCKB CEILING HANGER W/EYELET
27	A/R	3/8" DIA. HILTI HDI-P DROP-IN ANCHOR
28	A/R	1/4" - 20 THREADED EYELET.
29	A/R	3/8" - 16 THREADED EYELET.
30	A/R	1/4" DIA. HILTI HHCA CEILING HANGER W/EYELET
31	A/R	1/4" DIA. ITW/ RED HEAD TRUBOLT ANCHOR

H	Updated to 5TH EDITION FBC (2014)	1/19/15	RJA
G	Updated to 2010 FBC	03/01/12	JBH
F	Revised per Miami-Dade letter dated April 20, 2007	05/30/07	TK
E	Revision per Alternate Anchors Addition	01/24/07	HFN
D	Revision per Alternate Anchors Addition	11/22/06	HFN
C	Revision per Dade letter dated Feb. 2, 2005	02/14/05	DRL
B	Revised per Dade letter dated 10/25/04	11/16/04	BB
A	Revised per Dade letter dated September 15, 2004	09/24/04	DRL
SYM	REVISION	DATE	BY



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0127-04
Expiration Date 03/17/2020
By *[Signature]*
Miami-Dade Product Control

WAVE			
101 LINDENWOOD DR, MALVERN, PA 19355			
TITLE: EIFS & CEILING SYSTEMS COMPONENTS & B.O.M.			
PREPARED BY:	ORIN:	DATE:	
PTC	BB	06/25/04	
SCALE:	NTS	DWG. NO:	WAV0001
REV:	H	SHEET:	6 OF 6